PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5492319

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
TEMPTIME CORPORATION	04/24/2019

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A, AS COLLATERAL AGENT
Street Address:	CIB DMO WLO, MAIL CODE NY1-C413, 4 CMC
City:	BROOKLYN
State/Country:	NEW YORK
Postal Code:	11245-0001

PROPERTY NUMBERS Total: 48

Property Type	Number
Patent Number:	8067483
Patent Number:	8529682
Patent Number:	8354486
Patent Number:	8269042
Patent Number:	8642807
Patent Number:	8813675
Patent Number:	7161023
Patent Number:	7019171
Patent Number:	6924148
Patent Number:	7517146
Patent Number:	10031086
Patent Number:	10060893
Patent Number:	10006816
Patent Number:	8430053
Patent Number:	7490575
Patent Number:	7891310
Patent Number:	6957623
Patent Number:	9297706
Patent Number:	10048138
Patent Number:	7624698

Property Type	Number
Patent Number:	7343872
Patent Number:	7571695
Patent Number:	8122844
Patent Number:	9534964
Patent Number:	7209042
Patent Number:	9053616
Patent Number:	9224120
Patent Number:	9811632
Patent Number:	10095972
Patent Number:	7682830
Patent Number:	9914574
Patent Number:	9739757
Patent Number:	8671871
Patent Number:	9546911
Application Number:	15723693
Application Number:	15202806
Application Number:	16035957
Application Number:	16053253
Application Number:	15402678
Application Number:	62670494
Application Number:	62642792
Application Number:	62684400
Application Number:	14733313
Application Number:	15798001
Application Number:	15084987
Application Number:	15464207
Application Number:	16148364
Application Number:	62756794

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 800-494-5225
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Correspondent Name: STEWART WALSH
Address Line 1: 1025 VERMONT AVE NW, STE 1130
Address Line 2: COGENCY GLOBAL INC.
Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	1074547 PAT
NAME OF SUBMITTER:	THERESA VOLANO
SIGNATURE:	/Theresa Volano/
DATE SIGNED:	04/25/2019

Total Attachments: 8
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PATENT SECURITY AGREEMENT
April 24, 2019

WHEREAS, Temptime Corporation, a Delaware corporation ("**Grantor**"), owns and uses in its business, and will in the future adopt and so use, various intangible assets, including the Patent Collateral (as defined below);

WHEREAS, the Grantor is party to a Security Agreement dated as of October 27, 2014 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "**Security Agreement**"), by and among the Grantor, the other grantors party thereto and JPMorgan Chase Bank, N.A., as the Collateral Agent for the Secured Parties (in such capacity, the "**Collateral Agent**") pursuant to which the Grantor granted a security interest to the Collateral Agent (for the benefit of the Secured Parties) in the Patent Collateral (as defined below) and is required to execute and deliver this Patent Security Agreement (the "**Agreement**").

Unless otherwise defined herein, terms defined in the Security Agreement and used herein have the meaning given to them in the Security Agreement.

NOW, THEREFORE, in consideration of the foregoing and for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, subject to the terms and conditions of the Security Agreement, to evidence further the security interest granted by Grantor to the Collateral Agent pursuant to the Security Agreement, Grantor hereby grants to the Collateral Agent (for the benefit of the Secured Parties) a security interest in all of Grantor's right, title and interest in and to the following, in each case whether now owned or existing or hereafter acquired, developed, created or arising and wherever located (collectively, the "**Patent Collateral**"), other than Excluded Property:

(i) all patents and patent applications and rights and interests in patents and patent applications under any domestic or foreign law that are presently, or in the future may be, owned or held by such Grantor and all patents and patent applications and all re-issues, divisions, continuations, renewals, extensions and continuations in-part thereof and rights, title and interests in patents and patent applications under any domestic law that are presently, or in the future may be, owned by such Grantor in whole or in part (including, without limitation, the patents and patent applications set forth on Schedule A annexed hereto);

(ii) all proceeds, products, rents and profits of or from any and all of the foregoing Patent Collateral and, to the extent not otherwise included, all payments under insurance (whether or not the Collateral Agent is the loss payee thereof), or any indemnity, warranty or guaranty, payable by reason of loss or damage to or otherwise with respect to any of the foregoing Patent Collateral; and

(iii) the right to sue or otherwise recover for any past, present and future infringement, dilution, misappropriation, or other violation or impairment of any of the foregoing.

Grantor does hereby further acknowledge and affirm that the rights and remedies of the Collateral Agent with respect to the security interest in the Patent Collateral granted hereby are more fully set forth in the Security Agreement. Section 1 of the Security Agreement is hereby incorporated

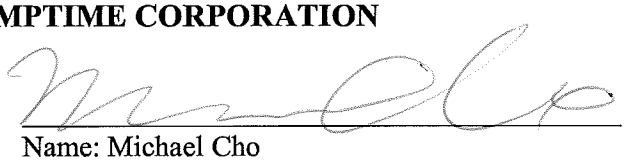
by reference. In the event that any provision of this Agreement is deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall control.

THIS AGREEMENT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAW OF THE STATE OF NEW YORK, WITHOUT REGARD TO CONFLICT OF LAWS PRINCIPLES THEREOF TO THE EXTENT SUCH PRINCIPLES WOULD CAUSE THE APPLICATION OF THE LAW OF ANOTHER STATE, EXCEPT TO THE EXTENT THAT THE UCC PROVIDES THAT THE PERFECTION OF THE SECURITY INTEREST HEREUNDER, OR REMEDIES HEREUNDER, IN RESPECT OF ANY PARTICULAR COLLATERAL ARE GOVERNED BY THE LAWS OF A JURISDICTION OTHER THAN THE STATE OF NEW YORK, IN WHICH CASE THE LAWS OF SUCH JURISDICTION SHALL GOVERN WITH RESPECT TO THE PERFECTION OF THE SECURITY INTEREST IN, OR THE REMEDIES WITH RESPECT TO, SUCH PARTICULAR COLLATERAL.

This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument; signature pages may be detached from multiple separate counterparts and attached to a single counterpart so that all signature pages are physically attached to the same document. Delivery of an executed signature page to this Agreement by facsimile transmission or other electronic communication shall be as effective as delivery of a manually signed counterpart of this Agreement.

IN WITNESS WHEREOF, Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

TEMPTIME CORPORATION

By: 

Name: Michael Cho
Title: President

Accepted and Agreed:

JPMORGAN CHASE BANK, N.A.,

as the Collateral Agent

By: _____
Name: Daglas Panchal
Title: Executive Director

SCHEDULE A
TO
GRANT OF PATENT SECURITY AGREEMENT

Title	Application No./ Filing Date	Patent No./ Issue Date	Grantor
Adjuvant-mediated reactivity enhancement of polymerizable diacetylenic materials	11/427589 29-Jun-2006	8067483 29-Nov-2011	Temptime Corporation
Process for preparing an indicator composition and indicator compositions	13248254 29-Sep-2011	8529682 10-Sep-2013	Temptime Corporation
Co-crystallizable diacetylenic monomer compositions, crystal phases and mixtures, and related methods	12/730835 24-Mar-2010	8354486 15-Jan-2013	Temptime Corporation
Crystallized diacetylenic indicator compounds and methods of preparing the compounds	12/261887 30-Oct-2008	8269042 18-Sep-2012	Temptime Corporation
Crystallized diacetylenic indicator compounds and methods of preparing the compounds	13/529605 21-Jun-2012	8642807 04-Feb-2014	Temptime Corporation
Time-temperature indicators comprising crystallized diacetylenic indicator compounds	13/945397 18-Jul-2013	8813675 26-Aug-2014	Temptime Corporation
Morphology control of substituted diacetylenic monomers for shelf life monitoring systems	10/900448 28-Jul-2004	7161023 09-Jan-2007	Temptime Corporation
Particle size control for acetylenic agents useful in condition monitoring systems	11/002818 02-Dec-2004	7019171 28-Mar-2006	Temptime Corporation
Reactivity control in substituted diacetylenic monomer shelf life monitoring systems	10/611302 02-Jul-2003	6924148 02-Aug-2005	Temptime Corporation
Color-changing environmental stimulus indicator with reference of variable appearance	15/723693 03-Oct-2017	—	Temptime Corporation
Color-retaining excess-temperature exposure indicator	11/844739 24-Aug-2007	7517146 14-Apr-2009	Temptime Corporation
Dual function heat indicator and method of manufacture	14/943600 17-Nov-2015	10031086 24-Jul-2018	Temptime Corporation
Dual-function heat indicator and method of manufacture	15/202806 06-Jul-2016	—	Temptime Corporation

Title	Application No./ Filing Date	Patent No./ Issue Date	Grantor
Dual-function heat indicator and method of manufacture	16/035957 16-Jul-2018	—	Temptime Corporation
Dual-function heat indicator and method of manufacture	15/232468 09-Aug-2016	10060893 28-Aug-2018	Temptime Corporation
Dual-function heat indicator and method of manufacture	16/053253 02-Aug-2018	—	Temptime Corporation
Activatable temperature indicator	14/875793 06-Oct-2015	10006816 26-Jun-2018	Temptime Corporation
Gel-based temperature indicators	15/402678 10-Jan-2017	—	Temptime Corporation
Activatable temperature indicator with time delay	62/670494 11-May-2018	—	Temptime Corporation
Descending and ascending temperature indicators utilizing deep eutectics	62/642792 14-Mar-2018	—	Temptime Corporation
Thermal transfer of active ink with dynamic environmental data	62/684400 13-Jun-2018	—	Temptime Corporation
Color-changing emulsions for freeze indicators	13/246392 27-Sep-2011	8430053 30-Apr-2013	Temptime Corporation
Combination freeze indicators	11/557841 08-Nov-2006	7490575 17-Feb-2009	Temptime Corporation
Freeze indicators, flexible freeze indicators, combination indicators and manufacturing methods	12/500799 10-Jul-2009	7891310 22-Feb-2011	Temptime Corporation
Critical temperature indicator	10/796445 09-Mar-2004	6957623 25-Oct-2005	Temptime Corporation
Freeze indicator employing light scattering and method of making same	13/968895 16-Aug-2013	9297706 29-Mar-2016	Temptime Corporation
Freeze indicator employing light scattering and method of making same	15/083773 29-Mar-2016	10048138 14-Aug-2018	Temptime Corporation
Freeze indicators suitable for mass production	12/069025 06-Feb-2008	7624698 01-Dec-2009	Temptime Corporation
Freeze indicators suitable for mass production	11/557000 06-Nov-2006	7343872 18-Mar-2008	Temptime Corporation
Freeze indicators, flexible freeze indicators and manufacturing methods	11/750054 17-May-2007	7571695 11-Aug-2009	Temptime Corporation
Freeze indicators with a controlled temperature response	12/871034 30-Aug-2010	8122844 28-Feb-2012	Temptime Corporation

Title	Application No./ Filing Date	Patent No./ Issue Date	Grantor
Three-phase emulsions used in a temperature condition indicator	14/314881 25-Jun-2014	9534964 03-Jan-2017	Temptime Corporation
RFID tag with visual environmental condition monitor	11/017534 20-Dec-2004	7209042 24-Apr-2007	Temptime Corporation
Computing systems and methods for electronically indicating the acceptability of a product	12/799252 20-Apr-2010	9053616 09-Jun-2015	Temptime Corporation
Computing systems and methods for electronically indicating the acceptability of a product	14/733313 08-Jun-2015	—	Temptime Corporation
Computing systems and methods for electronically indicating the acceptability of a product	13/276543 19-Oct-2011	9224120 29-Dec-2015	Temptime Corporation
Computing systems and methods for electronically indicating the acceptability of a product	14/981457 28-Dec-2015	9811632 07-Nov-2017	Temptime Corporation
Computing systems and methods for electronically indicating the acceptability of a product	15/798001 30-Oct-2017	—	Temptime Corporation
Two dimensional barcode with dynamic environmental data system, method, and apparatus	15/084987 30-Mar-2016	—	Temptime Corporation
Two dimensional barcode with dynamic environmental data system, method, and apparatus	15/464207 20-Mar-2017	—	Temptime Corporation
Switchable RFID antennas responsive to an environmental sensor	15/445363 28-Feb-2017	10095972 09-Oct-2018	Temptime Corporation
Switchable RFID antennas responsive to an environmental sensor	16/148364 01-Oct-2018	—	Temptime Corporation
Product shelf life monitoring systems	10/457664 10-Jun-2003	7682830 23-Mar-2010	Temptime Corporation
Temperature condition indicators for perishable product containers	14/502438 30-Sep-2014	9914574 13-Mar-2018	Temptime Corporation
Condition change labels	14/560944 04-Dec-2014	9739757 22-Aug-2017	Temptime Corporation
Temperature-activated time-temperature indicator	13/238686 21-Sep-2011	8671871 18-Mar-2014	Temptime Corporation

Title	Application No./ Filing Date	Patent No./ Issue Date	Grantor
Time-temperature indicator comprising a side chain crystalline polymer	14/167394 29-Jan-2014	9546911 17-Jan-2017	Temptime Corporation
Printable irreversible minimum temperature indicator	62/756794 07-Nov-2018	—	Temptime Corporation